



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

July 10, 2009
via electronic submittal

Mr. Gerardo Rios
USEPA – Region IX
Mail Stop A-5-2
75 Hawthorne Blvd.
San Francisco, CA 94105

Dear Mr. Rios:

Proposed Minor Revision to Title V Permit for Eastern Municipal Water District (EMWD), San Jacinto Regional Water Reclamation Facility (ID#19159)

Enclosed for your 45-day review is the proposed revisions to the Title V Permit for EMWD, San Jacinto Facility located at 770 N. Sanderson Avenue, San Jacinto, CA. This revision is considered to be a Minor permit revision, and a public notice is not required. As agreed, only the relevant portions of the revised permit are enclosed as shown below. Additional information, including engineering evaluation, will be submitted upon request.

SECTION D, PERMIT TO OPERATE:

Appl. Nos.	Equipment	Description
485853, 485855, 485856, 486679, and 486680	Five Internal Combustion Engines	Change of Condition to operate at a single load, and Modification of Permit Description to add Air to Fuel Ratio Controller.

The initial Title V permit for this facility was issued on February 1, 2007. Since then, the facility has requested a change in condition or permits to operate existing equipment, and filed these applications. The proposed changes will not result in an increase of emissions.

This request is being made via electronic submittal in order to facilitate your review. If you have any questions or need additional information, please contact Mr. Ken Matsuda at (909) 396-2656 or by email at kmatsuda@aqmd.gov.

Sincerely,

Jay Chen, P.E.

Senior AQ Engineering Manager
Refinery and Waste Management Permitting

JC: CDT: KKM

cc Appl.No. 485852
Ed Filadelfa, EMWD

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

Permit No.
A/N 485853

Equipment Description:

INTERNAL COMBUSTION ENGINE, ENGINE NO. 113, CATERPILLAR, MODEL NO. G-379 SI-NA HCR, RICH BURN, FOUR-STROKE CYCLE, 8 CYLINDER, 330 B.H.P, NATURAL GAS FIRED, WITH AN AIR TO FUEL RATIO CONTROLLER, ALTRONIC EPC-100, AND JOHNSON MATTHEY NON-SELECTIVE CATALYTIC REACTOR, MODEL MX-40, DRIVING AN AERATION BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OPERATOR SHALL COMPLY WITH THE RECORD KEEPING, SOURCE TESTING, AND EMISSION LIMITS OF RULE 1110.2.
[RULE 1110.2]
4. A PRESSURE DIFFERENTIAL MEASURING DEVICE SHALL BE INSTALLED TO MEASURE PRESSURE DROP ACROSS THE CATALYST BED WHILE THE EQUIPMENT IS IN OPERATION, THE PRESSURE DROP SHALL NOT EXCEED 5 INCHES OF WATER COLUMN.
[RULE 1303]
5. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]

Periodic Monitoring

6. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

7. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
8. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE VOC EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
9. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 3004 (a)(4)]
10. THE OXYGEN CONCENTRATION AT THE OUTLET OF THE ENGINE SHALL NOT EXCEED 0.5 PERCENT OXYGEN EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT..
[RULE 3004 (a)(4)]
11. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE. A RECORDING SYSTEM SHALL BE INSTALLED TO VERIFY COMPLIANCE WITH CONDITION 9. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS, BUT RECORDS OF HOW THE PARAMETRIC DATA RELATES TO OXYGEN CONTENT MUST BE RETAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004 (a)(4)]
12. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET OF THE CATALYST.
[RULE 3004 (a)(4)]
13. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE OUTLET OF THE CATALYST.
[RULE 3004 (a)(4)]
14. THE TEMPERATURE AT THE OUTLET OF THE CATALYST SHALL NOT EXCEED 1300 DEGREES FAHRENHEIT.
[RULE 3004 (a)(4)]

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

15. THE MINIMUM TEMPERATURE AT THE INLET OF THE CATALYST SHALL BE ABOVE 650 DEGREES FAHRENHEIT, EXCEPT DURING AN ENGINE COLD START NOT TO EXCEED 30 MINUTES.
[RULE 3004 (a)(4)]

Emissions and Requirements:

16. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - NOX: 36 PPMV, RULE 1110.2
 - NOX: 0.15 GM/BHP-HR, RULE 1303
 - VOC: 250 PPMV, RULE 1110.2
 - VOC: 0.15 GM/BHP-HR, RULE 1303
 - CO: 2000 PPMV, RULE 1110.2
 - CO: 0.6 GM/BHP-HR, RULE 1303

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

Permit No.
A/N 485855

Equipment Description:

INTERNAL COMBUSTION ENGINE, ENGINE NO. 33, CATERPILLAR, MODEL G379, SERIAL NO. 72B465, EIGHT CYLINDERS, SPARK IGNITION, 330 BHP, NATURALLY ASPIRATED, NATURAL GAS FIRED, WITH A MIRATECH EQUINOX CATALYTIC SILENCER MODEL E1300-6-D, AN AIR/FUEL RATIO CONTROLLER, ALTRONIC EPC-100, AND A WASTE HEAT RECOVERY SYSTEM, DRIVING AN AIR BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT IS TO BE FIRED ONLY ON NATURAL GAS.
[RULE 204, 1110.2]
4. A NON-RESETTABLE TIMER SHALL BE INSTALLED TO INDICATE, IN CUMULATIVE HOURS, THE NUMBER OF HOURS THE ENGINE IS OEPRATED.
[RULE 204, 1110.2]
5. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL PROVISIONS OF RULE 1110.2.
[RULE 204, 1110.2]
6. THE OXYGEN CONTENT OF THE EXHAUST GAS ENTERING THE CATALYST SHALL NOT EXCEED 0.5 PERCENT ON A VOLUME BASIS, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 204, 1110.2]
7. THE EXHAUST GAS OXYGEN SENSOR SHALL BE REPLACED AT LEAST ONCE PER YEAR.
[RULE 204, 1110.2]
8. THE TEMPERATURE OF THE EXHAUST GAS ENTERING THE CATALYST SHALL BE MAINTAINED BETWEEN 750 DEGREES F AND 1250 DEGREES F, EXCEPT DURING START-UP OF THE ENGINE WHICH SHALL NOT EXCEED A PERIOD OF 30 MINUTES.
[RULE 204, 1110.2]

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

9. THE TEMPERATURE OF THE EXHAUST GAS AT THE CATALYST OUTLET SHALL NOT EXCEED 1350 DEGREES F.
[RULE 204, 1110.2]
10. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]

Periodic Monitoring

11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
12. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
13. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE VOC EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
14. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 3004 (a)(4)]
15. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE. A RECORDING SYSTEM SHALL BE INSTALLED TO VERIFY COMPLIANCE WITH CONDITION 6. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS, BUT RECORDS OF HOW THE PARAMETRIC DATA RELATES TO OXYGEN CONTENT MUST BE RETAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004 (a)(4)]

FACILITY PERMIT TO OPERATE
EASTERN MUNICIPAL WATER DIST.

16. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET OF THE CATALYST.
[RULE 3004 (a)(4)]
17. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE OUTLET OF THE CATALYST.
[RULE 3004 (a)(4)]
18. THE OPERATOR SHALL RECORD THE MONTHLY FUEL CONSUMPTION FOR THIS EQUIPMENT.
[RULE 1110.2, 3004 (a)(4)]

Emissions and Requirements:

19. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 36 PPM AT 15% O₂, RULE 1110.2
VOC 250 PPM AT 15% O₂, RULE 1110.2
CO 2000 PPM AT 15% O₂, RULE 1110.2

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

**Permit No.
A/N 485856**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL G379 SI-TA-HCR, SERIAL NO. 72B01430, EIGHT CYLINDERS, SPARK IGNITION, 260 BHP, TURBOCHARGED AND AFTERCOOLED, DIGESTER GAS FIRED, WITH A PRE-STRATIFIED CHARGE SYSTEM, AIR TO FUEL RATIO CONTROLLER, CUSTOM, AND HEAT RECOVERY SYSTEM, DRIVING AN AERATION BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT IS TO BE FIRED ONLY ON DIGESTER GAS.
[RULE 1110.2]
4. THIS EQUIPMENT SHALL BE OPERATED IN COMPLIANCE WITH ALL PROVISIONS OF RULE 1110.2.
[RULE 1110.2]
6. A NON-RESETTABLE TIMER SHALL BE INSTALLED TO INDICATE, IN CUMULATIVE HOURS, THE NUMBER OF HOURS THE ENGINE IS OPERATED.
[RULE 1110.2]
7. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]

Periodic Monitoring

8. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE VOC EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
11. THE OPERATOR SHALL RECORD THE MONTHLY FUEL CONSUMPTION FOR THIS EQUIPMENT.
[RULE 1110.2, 3004 (a)(4)]
12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 3004 (a)(4)]

Emissions and Requirements:

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 36 PPM AT 15% O₂, RULE 1110.2
VOC: 250 PPM AT 15% O₂, RULE 1110.2
CO: 2000 PPM AT 15% O₂, RULE 1110.2

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

**Permit No.
A/N 486679**

Equipment Description:

INTERNAL COMBUSTION ENGINE [NO.36], CATERPILLAR, SPARK IGNITION, FOUR-STROKE CYCLE, NATURALLY ASPIRATED, RICH BURN, 8 CYLINDER, MODEL NO. G-379, 330 H.P, NATURAL GAS FIRED, WITH A MIRATECH EQUINOX CATALYTIC SILENCER MODEL EQ300-6-D2, AND AN AIR/FUEL RATIO CONTROLLER, ALTRONIC EPC-100, DRIVING A PUMP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OXYGEN CONTENT OF THE EXHAUST GAS ENTERING THE CATALYST SHALL NOT EXCEED 0.5 PERCENT ON A VOLUME BASIS, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 204, 1110.2]
4. THE TEMPERATURE OF THE EXHAUST GAS ENTERING THE CATALYST SHALL BE MAINTAINED BETWEEN 850 DEGREES F AND 1200 DEGREES F., EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 204, 1110.2]
5. THE TEMPERATURE OF THE EXHAUST GAS AT THE CATALYST OUTLET SHALL NOT EXCEED 1500 DEGREES F.
[RULE 204, 1110.2]
6. A TEMPERATURE INDICATOR SHALL BE INSTALLED A THE INLET AND OUTLET OF THE CATALYST.
[RULE 204, 1110.2]
7. THE EXHAUST GAS OXYGEN SENSOR SHALL BE REPLACED AT LEAST ONCE PER YEAR.
[RULE 204, 1110.2]
8. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

Periodic Monitoring

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE VOC EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 3004 (a)(4)]
13. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE. A RECORDING SYSTEM SHALL BE INSTALLED TO VERIFY COMPLIANCE WITH CONDITION 3. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS, BUT RECORDS OF HOW THE PARAMETRIC DATA RELATES TO OXYGEN CONTENT MUST BE RETAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004 (a)(4)]
14. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET OF THE CATALYST.
[RULE 3004 (a)(4)]
15. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE OUTLET OF THE CATALYST.
[RULE 3004 (a)(4)]

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

16. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, 3004 (a)(4)]
17. THE OPERATOR SHALL RECORD THE MONTHLY FUEL CONSUMPTION FOR THIS EQUIPMENT.
[RULE 1110.2, 3004 (a)(4)]

Emissions and Requirements:

18. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 36 PPMV, RULE 1110.2
VOC: 250 PPMV, RULE 1110.2
CO: 2000 PPMV , RULE 1110.2

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

PERMIT TO OPERATE

Permit No.
A/N 486680

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, SPARK IGNITION, FOUR-STROKE CYCLE, NATURALLY ASPIRATED, RICH BURN, 8 CYLINDER, MODEL NO. G-379, 330 H.P, NATURAL GAS FIRED, WITH A MIRATECH EQUINOX CATALYTIC SILENCER MODEL EQ300-6-D2, AND AN AIR/FUEL RATIO CONTROLLER, ALTRONIC EPC-100, DRIVING A PUMP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OXYGEN CONTENT OF THE EXHAUST GAS ENTERING THE CATALYST SHALL NOT EXCEED 0.5 PERCENT ON A VOLUME BASIS, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 204, 1110.2]
4. THE TEMPERATURE OF THE EXHAUST GAS ENTERING THE CATALYST SHALL BE MAINTAINED BETWEEN 850 DEGREES F AND 1200 DEGREES F., EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 204, 1110.2]
5. THE TEMPERATURE OF THE EXHAUST GAS AT THE CATALYST OUTLET SHALL NOT EXCEED 1500 DEGREES F.
[RULE 204, 1110.2]
6. A TEMPERATURE INDICATOR SHALL BE INSTALLED AT THE INLET AND OUTLET OF THE CATALYST.
[RULE 204, 1110.2]
7. THE EXHAUST GAS OXYGEN SENSOR SHALL BE REPLACED AT LEAST ONCE PER YEAR.
[RULE 204, 1110.2]
8. THE ENGINE SHALL OPERATE BETWEEN 1044 AND 1276 RPM, EXCEPT DURING START-UP OR SHUT-DOWN OPERATION WHICH DOES NOT EXCEED 30 MINUTES PER EVENT.
[RULE 1110.2]

FACILITY PERMIT TO OPERATE EASTERN MUNICIPAL WATER DIST.

Periodic Monitoring

9. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
10. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
11. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE VOC EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY 3 YEARS USING THE TEST METHOD AS STATED IN RULE 1110.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1110.2 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
12. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR TO FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 3004 (a)(4)]
13. THIS ENGINE SHALL BE EQUIPPED WITH AN OXYGEN SENSOR AT THE EXHAUST OF THE ENGINE. A RECORDING SYSTEM SHALL BE INSTALLED TO VERIFY COMPLIANCE WITH CONDITION 3. PARAMETRIC OPERATING DATA MAY BE USED IN LIEU OF DIRECT OXYGEN MEASUREMENTS, BUT RECORDS OF HOW THE PARAMETRIC DATA RELATES TO OXYGEN CONTENT MUST BE RETAINED AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004 (a)(4)]
14. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE INLET OF THE CATALYST.
[RULE 3004 (a)(4)]
15. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE AND RECORDING SYSTEM TO ACCURATELY INDICATE THE TEMPERATURE AT THE OUTLET OF THE CATALYST.
[RULE 3004 (a)(4)]

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16. THE OPERATOR SHALL INSTALL AND MAINTAIN A NON-RESETTABLE TOTALIZING TIME METER TO DETERMINE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, 3004 (a)(4)]
17. THE OPERATOR SHALL RECORD THE MONTHLY FUEL CONSUMPTION FOR THIS EQUIPMENT.
[RULE 1110.2, 3004 (a)(4)]

Emissions and Requirements:

18. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 36 PPMV, RULE 1110.2
VOC: 250 PPMV, RULE 1110.2
CO: 2000 PPMV, RULE 1110.2